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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,637	02/27/2004	Brian S. Schieck	NVID-P001125	7655
75	90 09/28/2005		EXAM	INER
WAGNER, MURABITO & HAO LLP			DUONG, KHANH B	
Third Floor Two North Mar	ket Street		ART UNIT	PAPER NUMBER
San Jose, CA			2822	

DATE MAILED: 09/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/789,637	SCHIECK ET AL.			
Office Action Summary		Examiner	Art Unit			
		Khanh B. Duong	2822			
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLECTED IN THE MAILING INSIGNS OF THE MAILING INSIGNS OF THE MAILING INSIGNS OF THE MAILING INSIGNS OF THE MONTHS From the mailing date of this communication. OF period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by stature the received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 27 I	February 2004				
		is action is non-final.				
- '=	Since this application is in condition for allowa		secution as to the merits is			
,—	closed in accordance with the practice under	·				
Dispositi	on of Claims					
4)⊠	Claim(s) 1-35 is/are pending in the application	n				
	4a) Of the above claim(s) is/are withdra					
	Claim(s) is/are allowed.					
·	Claim(s) is/are rejected.					
	Claim(s) is/are objected to.					
·	Claim(s) 1-35 are subject to restriction and/or	election requirement.				
Applicati	on Papers	·				
	•					
	The specification is objected to by the Examin					
10)	The drawing(s) filed on is/are: a) ac					
	Applicant may not request that any objection to the		· ·			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E					
Priority u	nder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreig ☐ All _ b)	n priority under 35 U.S.C. § 119(a)	-(d) or (f).			
۵/۱	1. Certified copies of the priority documen	ts have been received				
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the price					
	application from the International Burea					
* S	ee the attached detailed Office action for a lis		d.			
		·				
Attachment	(s)					
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)			

DETAILED ACTION

This office action is in response to the filing of the application on February 27, 2004. Accordingly, claims 1-35 are pending.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-7 and 13-18, drawn to a semiconductor package, classified in class 257, subclass 678.
- II. Claims 8-12, drawn to a method of forming a semiconductor package, classified in class 438, subclass 106.
- III. Claims 19-25, drawn to a method of testing a semiconductor package, classified in class 324, subclass 758.
- IV. Claims 26-35, drawn to an electronic system comprising a semiconductor package, classified in class 714, subclass 47.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the test probe point can alternatively be formed by etching instead of drilling.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product

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as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the device as claimed does not comprise a boring hole filled with conductive material.

Inventions IV and I are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case, the device as claimed does not require a bus and a memory.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, for example, invention II does not require boring a hole to the test probe point.

Inventions II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, for example, invention II does not require a bus or a memory.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different

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inventions have different modes of operation, for example, invention III does not require a bus or a memory.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for one group is not required for other groups, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Duong whose telephone number is (571) 272-1836. The examiner can normally be reached on 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBD

AMIR ZARABIAN

PAPETARSOTA PATENTI EXAMINER

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